Sansure

SLAN® -96P
Real–time PCR system

Grow your Realtime PCR potential!

☑ **Unique design**
☑ **Innovative technology**

the latest SLAN-96P
real-time PCR system brings you…

■ *Innovative dual 48/48 reaction blocks - increased efficiency and flexibility*

SLAN-96P's dual 48/48 reaction blocks are controlled separately, like two independent instruments. With SLAN-96P, two different assays can be tested simultaneously on a single instrument; A new assay can be started while another is running.

■ *Patented precise-temperature-control technology: well-to-well uniformity with an accuracy of ±0.1℃*

Benefit from its patented advanced spot-to-spot temperature compensation technology, the SLAN-96P's temperature uniformity across 96 wells is within a remarkable ±0.1℃. This superior uniformity meets all your needs for highly precise studies, especially for High-Resolution Melting Curve (HRM) applications.
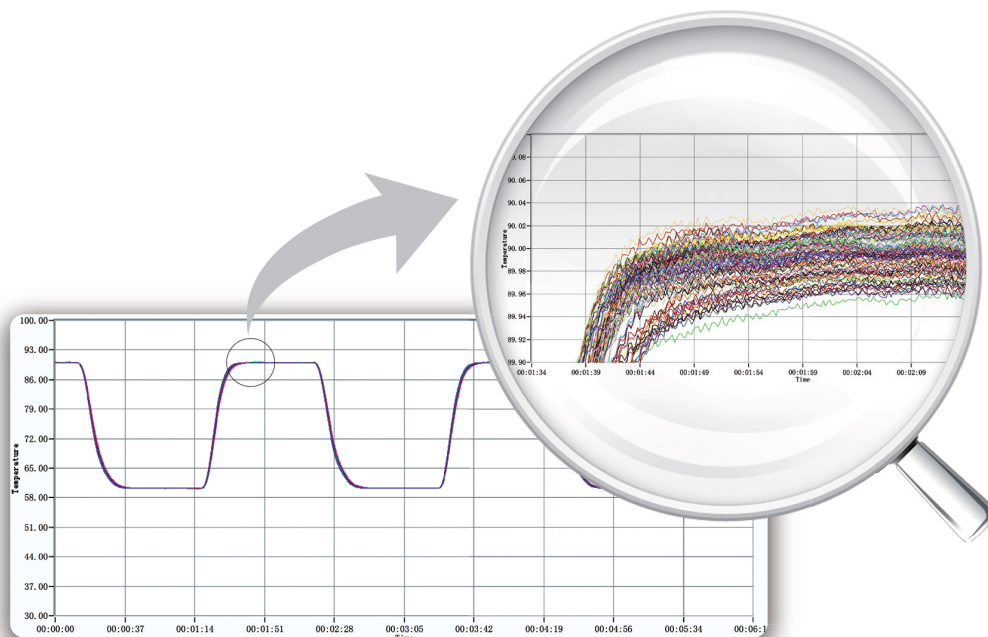
Partial enlarged plot of SLAN-96P's temperature curve shows temperature uniformity cross 96 wells within ±0.05℃

■ *Advanced optical system - reliable, sensitive and calibration-free*

- The unique Lateral-Capture signal technology enhances fluorescence capture efficiency and eliminates signal noise, offering better detection sensitivity and smooth amplification curves;
- The improved optical system decreases instrument background and ensures better reproducibility;
- Long-lasting high-intensity LEDs which are reliable and maintenance-free;
- Negligible optical background results in no background calibration;
- Innovative optical light-path design eliminates edge effect and gives uniform fluorescence intensity for each tube. No ROX reference calibration required;
- Instrument hardware calculates gain automatically during running. No gain setting required.

■ *Much faster - generates accurate results in less than 50 minutes*

Based upon the original SLAN system, the latest SLAN-96P has improved upon its thermal design with a super-fast heating/cooling rate of up to 4.0℃/sec. The subsequent rapid thermal cycling results in much faster assays.

■ *Professional multiplex detection channels - true 6plex real-time PCR*

SLAN-96P's 6 sets of excitation and emission filter combinations ensure 6-color multiplexing real-time reading capacity; You will enjoy a high flexibility in the choice of fluorescence dyes and detection format.

■ *Ideal approach to your HRM study - accurate, sensitive, no need for complicated temperature shift calibration*

SLAN-96P's unsurpassed thermal performance and superior optical system makes it an ideal platform for HRM:

- Fast fluorescence detection mode completes gene scanning in 30mins;
- Advanced hardware design and software algorithms generate accurate and precise data without the need for temperature shift calibration.

■ *Outstanding performance - reduces experimental error*

The new SLAN-96P brings high-quality and reliable data:

- Correlation coefficient: -0.999 ~ -1.000
- Reproducibility: CV < 1.0%
- Sensitivity: detection of one starting template copy
- Broad dynamic range: $10^0 \sim 10^{10}$ copies/mL
- High resolution: easily discriminates between 1000 and 2000 copies
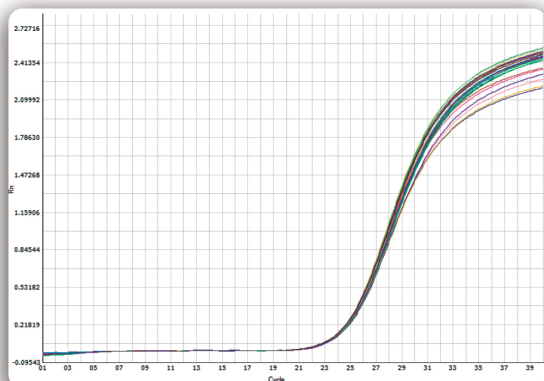
Reproducibility across 96 wells: CV<1.0%
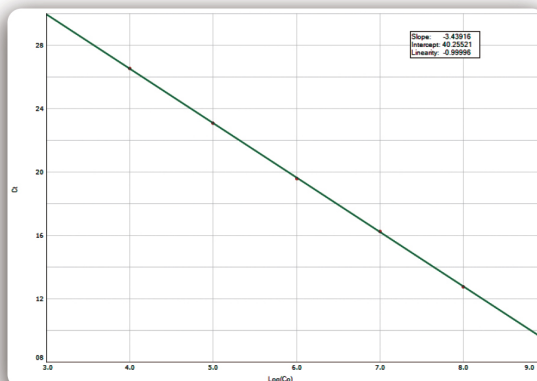
Correlation coefficient: -0.99996

■ *Powerful yet easy to use multitasking software - excellent tools for high-quality data analysis*

SLAN-96P's powerful, versatile multi-tasking software provides:
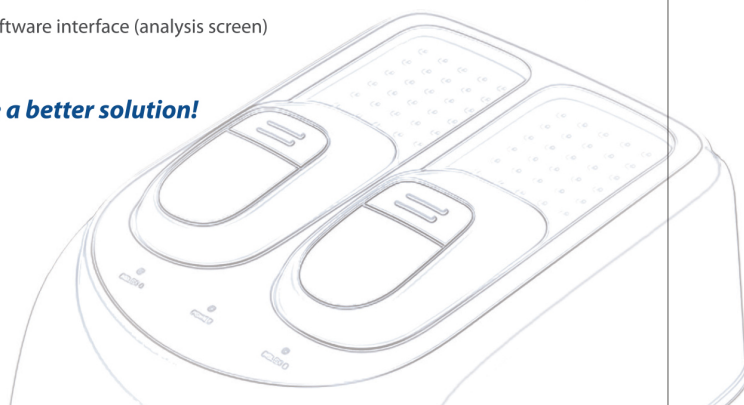
- A broad range of analysis applications: Quantification/Qualification, Allelic Discrimination, Multi-plex Melting Curve analysis, Relative Quantification, HRM;
- The one-of-a-kind *Project* design simplifies experiment workflow; users are free of probes setup and PCR protocol editing;
- User-friendly and intuitive multi-task software interface offers convenient approach to get started and obtain reliable results;
- Flexible import and export functions enable easy LIMS connectivity;
- Supports complex algorithms, enabling anything from basic to sophisticated data analysis;
- Manager multi-instruments (SLAN-96P/96S/48P) simultaneously by USB connection to increase throughput;
- Improved patient report editor.
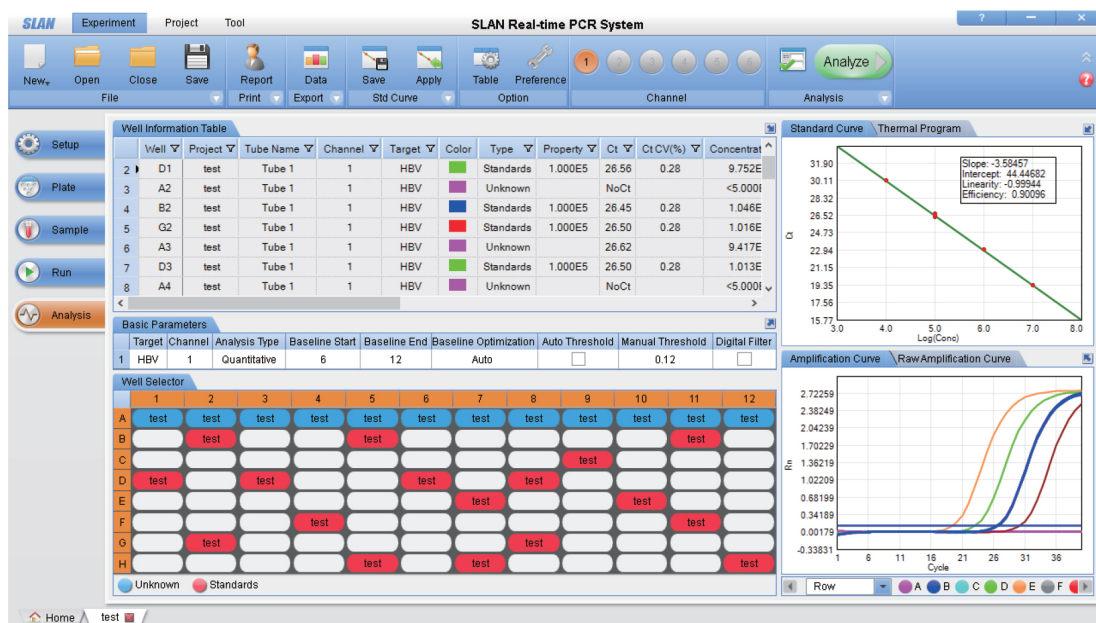
SLAN-96P multi-tasking software interface (analysis screen)

■ *Support and service - we are committed to provide a better solution!*

- 18 month warranty;
- Rapid customer and instrument support service;
- Highly stable and durable; High performance at an affordable price;
- Low noise, low power consumption, robust, compact and elegant;
- Open platform: supports all universal PCR reagents and plastics.

Specifications

Product model	SLAN-96P
Sample capacity	96 wells (dual 48/48 reaction module)
Sample size	15 - 50µL
Consumable	0.2mL PCR tubes, 8-tube strips, 48-well plates
Parallel running mode	dual reaction blocks /running 2 tests independently
Temperature range	4-99℃
Max ramp rate	4.0℃ /sec
Temperature accuracy	±0.1℃
Temperature uniformity	±0.1℃
Thermal cycling system	Peltier-based system
Temperature control mode	tube control/block control
Light Source	LED (maintenance-free)
Detector	high sensitivity photoelectric sensor
Sensitivity	1 copy
Reproducibility	CV<1.0%
Correlation coefficient	-0.999 ~ -1.000
Linearity range	$10^0 \sim 10^{10}$
Resolution	can discriminate between 1000 copies and 2000 copies
Excitation	CH1 470 nm CH2 530nm CH3 580nm CH4 630nm CH5/CH6 custom-made
Emission	CH1 510 nm CH2 565nm CH3 620nm CH4 665nm CH5/CH6 custom-made
Dyes and probes	CH1 FAM™/SYBR Green® CH2 VIC®/HEX/JOE™/TET CH3 ROX/Texas Red® CH4 CY5™
Software application	Absolute Quantification、Positive/Negative、Allelic Discrimination (TaqMan® endpoint method)、Melting Curve analysis (FRET)、Relative Quantification (RQ)/Gene expression analysis、High Resolution Melting Curve analysis
Hot-lid	30℃ ~108℃ (default 105℃, adjustable) electronic automatic hot-lid
Power supply	230VAC, 50Hz
Power consumption	850VA
Computer requirement	2GB RAM, CPU 1.5GHz
Dimensions	380mm×520mm×250mm （W×D×H）
Weight	18Kg
Operation system	Microsoft® Windows XP/Vista/7/8
Communication	RS232，USB